

REMARKS

Claims 1, 2, 4, 8 to 11, 13 to 16, and 18 to 25 are pending in the application.¹ Claims 1 and 10 are independent. Favorable reconsideration and further examination are respectfully requested.

Initially, claim 10 was objected to for an alleged informality. In particular, the Applicants were instructed to replace "Circuitry" with "A circuitry". We, however, decline to make this change because, in the present context, "Circuitry" is proper English, whereas "A circuitry" is not. Accordingly, withdrawal of the objection is respectfully requested.

In the Office Action, independent claim 1 was rejected over the previously-cited Heinonen patent (U.S. 5,896,562) in view of JP2001-292073 (Hayakawa). Independent claim 10 was rejected over Heinonen and Hayakawa in combination with the previously cited Newell and Toda patents (U.S. 5,815,804 and 6,751,471, respectively). The following references were also applied against dependent claims: U.S. Patent No. 6,643,522 (Young), and U.S. Patent Publication No. 2003/0050018 (Weissman), U.S. Patent No. 6,006,117 (Hageltorn).

As shown above, independent claim 1 has been amended to recite

a low temperature cofired ceramic (LTCC) module having integrated therein passive components for use in matching impedances between the switch and the first and second band-pass filters (emphasis added)

Independent claim 10 has been amended to recite

¹ The Examiner is urged to independently confirm this recitation of the pending claims.

wherein the transmitting portion comprises a *low temperature cofired ceramic (LTCC)* module having the passive component integrated therein (emphasis added)

The applied art is not understood to disclose or to suggest a low temperature cofired ceramic (LTCC) module having integrated passive components.

In this regard, the Office Action acknowledges that Heinonen fails to disclose or to suggest a multi-layer ceramic module having integrated therein passive components for use in matching impedances between the switch and the first and second band-pass filters². Hayakawa, however, was cited to make up for this deficiency of Heinonen. Hayakawa describes a glass ceramic substrate comprised of fifteen layers.³ As described in Hayakawa, the structure, with passive components integrated therein, is formed via laminating and low-temperature sintering.⁴ Thus, while Hayakawa may disclose a substrate having components integrated therein, Hayakawa does not disclose or suggest that this substrate is an LTCC substrate. More specifically, while glass ceramic can be part of an LTCC substrate, a glass ceramic substrate (as recited in Hayakawa) is not, in and of itself, an LTCC substrate.

For at least the foregoing reasons, claims 1 and 10 are believed to be patentable over Heinonen and Hayakawa. The remaining art was not cited for its disclosure of a multi-layer substrate having components integrated therein, and is not understood to remedy the foregoing deficiencies of Heinonen and Hayakawa vis-à-vis claims 1 and 10. Accordingly, claims 1 and 10 are believed to be patentable over the art.

² Office Action, pages 4 and 11

³ Hayakawa, paragraph 0043 (translation)

⁴ *Id.*

Each of the dependent claims is also believed to define patentable features of the invention. Each dependent claim partakes of the novelty of its corresponding independent claim and, as such, has not been discussed specifically herein.

It is believed that all of the pending claims have been addressed. However, the absence of a reply to a specific rejection, issue or comment does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above may not be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper, and the amendment of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment.

In view of the foregoing amendments and remarks, Applicants respectfully submit that the application is in condition for allowance, and such action is respectfully requested at the Examiner's earliest convenience.

Applicants' undersigned attorney can be reached at the address shown below. All telephone calls should be directed to the undersigned at 617-521-7896.

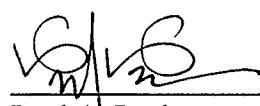
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Respectfully submitted,

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